



# AMSRR/AMSRR-E Data Processing Status at JAXA/EOC

*Joint AMSRR Science Team Meeting @ Hawaii  
September 13 – 15, 2005*

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# 1. JAXA/EOC Data Processing Status

## Number of the receipt of the AMSR-E RBD & PDS

✿ The number of the receipt of the AMSR-E RBD and PDS files (As of June 30 2005)

No.	Phase	RBD		PDS	
		Science	GBAD	Science	GBAD
1	Initial checkout Phase (May 4 2002 ~ Aug. 29 2002)	1,369	1,661	1,055	1,325
2	Operations phase (Aug. 30 2002 ~ Jun. 30 2005)	15,003	15,308	215	235
Total		16,372	16,969	1,270	1,560

✿ The number of the data receipt by the receiving station (AS of June 30 2005)

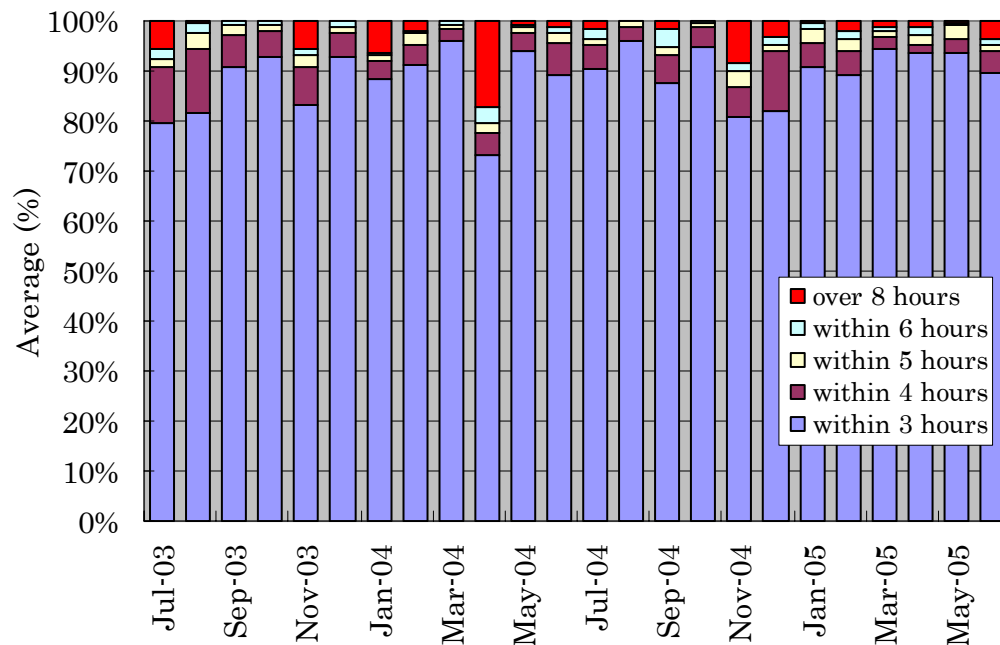
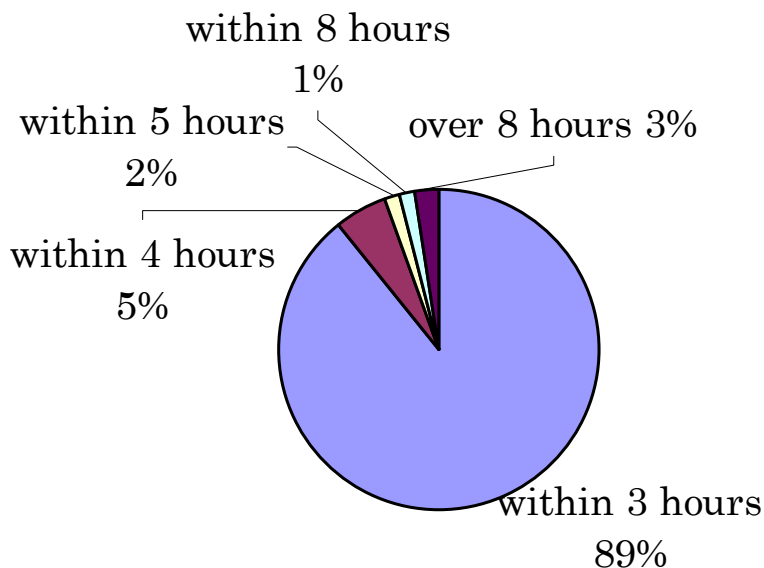
No.		SGS	AGS	SKS	PF1	EDO	SG3	GLC	GLB	GLA	STG	Total
1	AMSR-E Science	5,573	3,365	3,312	2,030	1,385	468	188	27	20	4	16,372
2	AMSR-E GBAD	5,884	3,471	3,343	2,116	1,444	472	189	27	20	3	16,969
Total (files)		11,457	6,836	6,655	4,146	2,829	940	377	54	40	7	33,341
Total (%)		34.363	20.5	19.96	12.44	8.485	2.819	1.131	0.162	0.12	0.021	100

SGS, SG3 : Svalbard Ground Station, AGS : Alaska Ground Station, SKS : Kongsberg-Lockheed Martin Ground Station  
 PF1 : Datalynk Ground Station, GLC, GLB, GLA : Gilmore Creek Ground Station  
 STG : Second TDRSS Ground Terminal (White Sands), EDO : EOS Data and Operating System

# 1. JAXA/EOC Data Processing Status

## AMSR-E RBD Data Latency

### AMSR-E RBD Data Latency ( Jul. 2003 ~ Jun. 2005 )



- **Data Latency:** defined as the time difference between the start time of observation for 1 RBD and the time of RBD received at JAXA/EOC.
- 89% of RBD were received within 3 hours nominally at JAXA/EOC.

# 1. JAXA/EOC Data Processing Status

processing Level-1 product

## ✿ The number of the AMSR-E Level-1A products (As of June 30 2005)

No.	Product Level	2002	2003	2004	2005	Total
1	AMSR-E Level-1A	6,405	10,631	10,660	5,271	32,967
2	AMSR-E Level-1B	6,405	10,631	10,660	5,271	32,967
Total		12,810	21,262	21,320	10,542	65,934

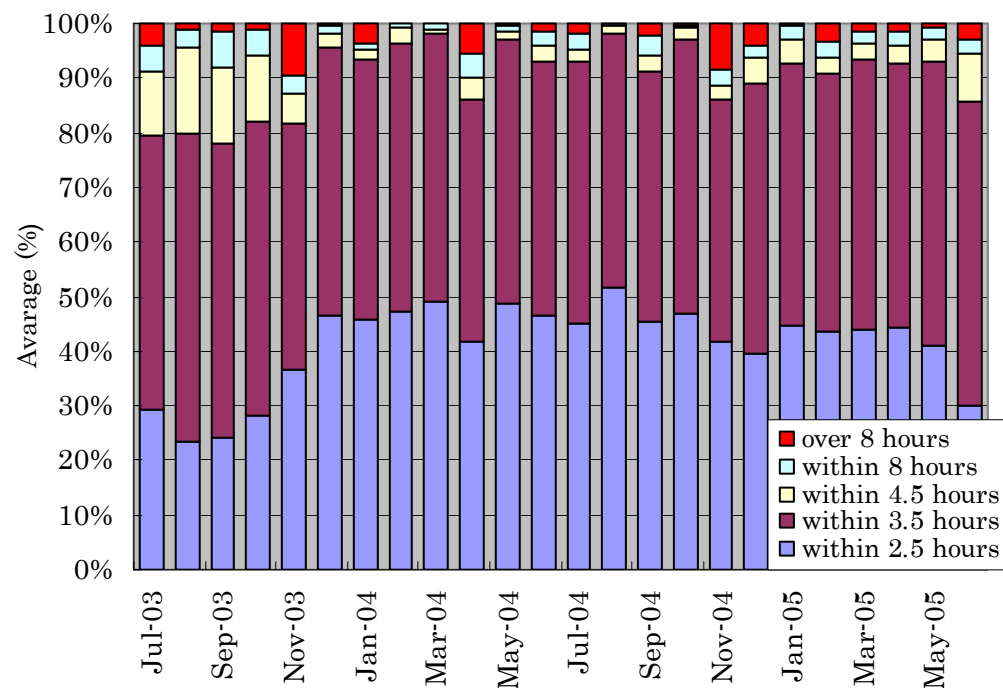
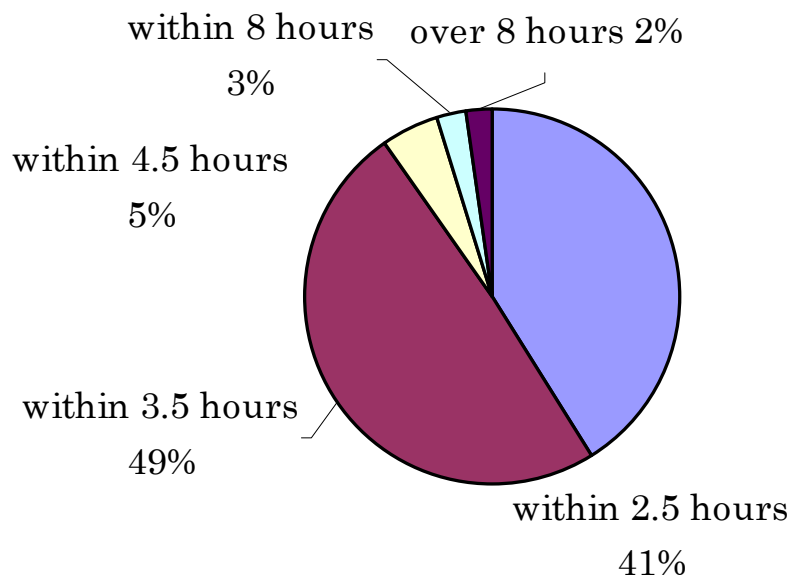
## ✿ Quality Level for AMSR-E Level-1A product (As of June 30 2005)

No.	Quality Level	2002	2003	2004	2005	Total (files)	Total (%)
1	Good	5,090	10,299	10,565	5,252	25,954	93.71
2	Fair	54	39	45	19	138	0.50
3	Poor	24	0	0	0	24	0.09
4	NG	1,237	293	50	0	1,580	5.70
Total		6,405	10,631	10,660	5,271	27,696	100

# 1. JAXA/EOC Data Processing Status

## AMSR-E Level-1A product Data Latency

### AMSR-E Level-1A Data Latency ( Jul. 2003 ~ Jun. 2005 )



- **Data Latency:** defined as the time difference between the start time of observation for 1 RBD and the time of L1A delivered from JAXA/EOC.
- L1A processing takes approx. 30 minutes at JAXA/EOC.
- 90% of L1A were delivered within 3.5 hours nominally from JAXA/EOC.

## 2. AMSR/AMSR-E Data Release Schedule

### AMSR/AMSR-E Level-1 Product Version-up History

#### ✿ AMSR/AMSR-E Level-1 Product Version History

No.	AMSR/AMSR-E	Version number	Release Date
1	AMSR	Version 1.0	Jun. 28 2003
		Version 2.0	Mar. 1 2005
2	AMSR-E	Version 1.0	Des. 24 2003
		Version 2.0	Mar. 1 2005

- Currently, we are processing the AMSR-E Level-1A product with version 2.0.
- JAXA completed the reprocess for AMSR/AMSR-E Level-1A product(version-2) of all archived data on the beginning of Sep. 2005.
- JAXA have no plan to version-up for AMSR/AMSR-E Level-1A product this year.

## 2. AMSR/AMSR-E Data Release Schedule

### AMSR-E Higher Level Product Version-up History

#### ✿ AMSR-E Higher Level Product Version History

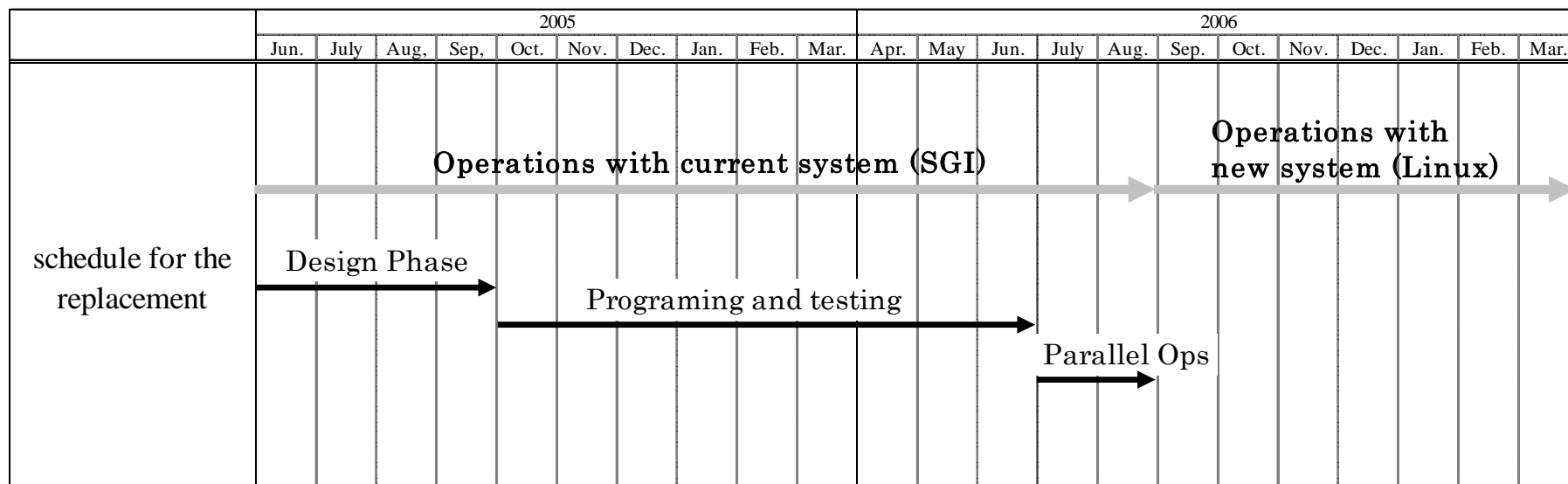
No.	Products	Sep. 12 2003	Mar. 12 2004	Mar. 1 2005	Mar. 2006
1	Water Vapor (WV)	Version 1.0	Version 2.0	Version 3.0	Version 4.0
2	Cloud Liquid Water (CLW)	-	Version 2.0	Version 3.0	Version 4.0
3	Amount of Precipitation (AP)	Version 1.0	Version 2.0	Version 3.0	Version 4.0
4	Sea Surface Wind (SSW)	Version 1.0	Version 2.0	Version 3.0	Version 4.0
5	Sea Surface Temperature (SST)	Version 1.0	Version 2.0	Version 3.0	Version 4.0
6	Snow Water Equivalent (SWE)	-	Version 2.0	Version 3.0	Version 4.0
7	Sea Ice Concentration (IC)	Version 1.0	Version 2.0	Version 3.0	Version 4.0
8	Soil Moisture (SM)	-	Version 2.0	Version 3.0	Version 4.0

#### ✿ AMSR Higher Level Product Version History

No.	Products	Des. 24 2003	Mar. 1 2005	Mar. 2006
1	Water Vapor (WV)	Version 1.0	Version 3.0	Version 4.0
2	Cloud Liquid Water (CLW)	-	Version 3.0	Version 4.0
3	Amount of Precipitation (AP)	Version 1.0	Version 3.0	Version 4.0
4	Sea Surface Wind (SSW)	Version 1.0	Version 3.0	Version 4.0
5	Sea Surface Temperature (SST)	Version 1.0	Version 3.0	Version 4.0
6	Snow Water Equivalent (SWE)	-	Version 3.0	Version 4.0
7	Sea Ice Concentration (IC)	Version 1.0	Version 3.0	Version 4.0
8	Soil Moisture (SM)	-	Version 3.0	Version 4.0

# 3. Replacement of the AMSR-E Data Processing System HDF Library

## ❁ Schedule for the Replacement of AMSR-E Data Processing System



### HDF Library for Linux OS (64bit)

❁ Now, we are using the HDF Library version 4.1r2 for AMSR/AMSR-E products. However, the HDF Library version 4.1r2 don't support the Linux OS (64bit). As the investigation result of the HDF Library, the HDF Library version 4.2r1 support the Linux OS (64bit). Therefore, we would like to use the HDF Library version 4.2r1.

### 3. Summary

- ✿ AMSR-E Data Processing System at JAXA/EOC is working nominally.
  - JAXA/EOC continue to provide the AMSR-E Level-1A product with version-2.
  - The reprocessing for the AMSR/AMSR-E Level-1A product (version-2) finished normally in September 2005. and JAXA had shipped all reprocessed products to NASA/JPL.
  
- ✿ AMSR/AMSR-E higher level product will be upgraded to version 3 on March 2006.
  - JAXA are modifying the algorithm for the higher level. we have the plan to update higher level products on March 2006.
  
- ✿ Replacement schedule for the AMSR-E Data Processing System
  - JAXA/EOC have a plan for the replacement of the AMSR-E Data Processing System with Linux OS. Regarding to switch the Linux OS, we don't use the current HDF Library v4.1r2. Therefore, we would like to change the library from v4.1r2 to v4.2r1.
  - The Level-1 processing speed will be improved for 20 minutes by the replacement.